

Superthrive® - Safety Data Sheet

Section 1: Identification

Product Identifier: Superthrive®

Recommended Use: Superthrive is a concentrated non-toxic solution for plants to be mixed with water and used expressly for horticultural and agricultural purposes.

Manufacturer: Vitamin Institute
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Emergency Phone (800) 441-8482

Section 2: Hazard(s) Identification

Classification of Mixture

Skin Irritation	Category 2
Eye Irritation	Category 2B

Label Elements including precautionary statements

Signal Word: WARNING!
Symbol Name: Exclamation Mark
Hazard Statement: Causes Skin and Eye Irritation

Precautionary Statements - General

Keep out of reach of children

Precautionary Statements - Prevention

Wash hands thoroughly after handling.
Wear protective gloves

Precautionary Statements - Response

SKIN IF ON SKIN: Wash with plenty of water
If skin irritation occurs: Get medical advice/attention.
Take off contaminated clothing and wash it before reuse.

EYES IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do.
Continue rinsing.
If eye irritation persists: Get medical attention/advice.

Precautionary Statements - Storage

none

Precautionary Statements - Disposal

none

Other Hazards not applicable

Section 3: Composition/Information on Ingredients

Reportable Hazardous Substances

Name	CAS #	Concentration
Isopropyl Alcohol	67-63-0	1.80%
Acetic Acid	64-19-7	2.00%

Section 4: First-Aid Measures

First Aid Measures

Skin Contact	Wash with plenty of water
Eye Contact	Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do.
Ingestion:	Drink fluids to flush. DO NOT INDUCE VOMITING.
Inhalation:	N/A

If any irritation persists, seek medical attention.

Most Important Symptoms

Skin Contact	After skin contact, a skin irritation may occur (redness).
Eye Contact	After eye contact, an eye irritation may occur (redness).

Indication of any immediate medical attention and special treatment needed

Notes to Physician	Treat Symptomatically
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Section 5: Fire-fighting Measures

Extinguishing Media:	<u>Appropriate:</u> CO ₂ , dry chemical, or foam. Water can be used to cool and protect exposed material. <u>Inappropriate:</u> not determined
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Special Fire Fighting Procedures: N/A

Unusual Fire and Explosion Hazards: N/A

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures	Wash hands thoroughly after handling. Wear eye protection and protective gloves if necessary.
Environmental Precautions	Dilute with water and wash off pavement. Allow to drain into soil.
Methods and Materials for containment and clean up	Pick up free liquid and keep in suitable, closed containers for recycle and/or disposal. Residual liquid can be absorbed on inert material.

Section 7: Handling and Storage

Precautions for Safe Handling:	Handle Carefully. Wash your hands thoroughly after handling. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing. If ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse.
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Conditions for Safe Storage Store in the original container away from sunlight.

Section 8: Exposure Controls / Personal Protection

Control Parameters

Exposure Guidelines

Component	PEL
Isopropyl Alcohol	980 mg/m ³
Acetic Acid	25 mg/m ³

Appropriate Engineering Controls

N/A

Individual Protective Measures

Eye/Face Protection:	None required for consumer use. If splashes are likely to occur: Use safety glasses.
Skin/Body Protection:	Wear suitable clothing. Gloves may be worn by those with sensitive skin.
Respiratory:	Not Applicable
Hygiene:	Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid contact with eyes, skin and clothing. Wash contaminated clothes before reuse.

Section 9: Physical and Chemical Properties

Appearance:	Initial Boiling Point & Boiling Range - Not Available
Physical State - liquid	Upper/Lower flammability or explosive limits - Not Applicable
Color - amber	Vapor Pressure - Not Available
Odor - earthy	Vapor Density - Not Available
Odor Threshold: Not Applicable	Relative density - Not Available
pH - 3.0	Solubility - water soluble
Melting point / Freezing Point - Not Available	Partition coefficient: n-octanol/water - Not Available
Flammability - Non Flammable	Auto-ignition temperature - Not Available
Flash Point - Not Applicable	Decomposition Temperature - Not Available
Evaporation Rate - Not Available	Viscosity - Not Available

Section 10: Stability and Reactivity

Chemical Stability - Stable
Possibility of Hazardous Reactions - None
Conditions to Avoid - None Known
Incompatible Materials - None Known
Hazardous Decomposition Products - None

Section 11: Toxicology Information

Information on Toxicological Effects

Acute Toxicity	<u>Isopropyl Alcohol:</u> LD50 (rat, oral) = 5045 mg/Kg LC50 (rat, inhalation), 8 h = 16000 LD50 (skin, rabbit) = 12800 mg/Kg	<u>Acetic Acid:</u> LD50 (rat, oral) = 3310 mg/Kg LDLo (rat, inhalation), 4 h = 16000 LD50 (skin, rabbit) = 1060 uL/Kg
Skin corrosion/irritation	Irritant for skin.	
Serious eye damage/irritation	Irritant for the eyes.	
Sensitization	Not available	
STOT-repeated exposure	Not available	
Germ cell mutagenicity	Not available	
Carcinogenicity	Not available	
Reproductive toxicity	Not available	
STOT-single exposure	Not available	
Aspiration hazard	Not available	

Section 12: Ecological information

Toxicity	LC50 > 750 mg/L = Non Hazardous
Persistence and degradability	Not available
Bioaccumulation potential	Not available
Mobility in the soil	Not available
Other Adverse Effects	Not available

Section 13: Disposal considerations

Waste Treatment Methods Waste residues are biodegradable and safe for soils.
Dilute with water to discard.

Container Handling and Disposal: Rinse containers with water and recycle.

Section 14: Transport Information

UN Number	Not Regulated
UN Proper Shipping Name	Not Regulated
Transport Hazard class	Not Regulated
Environmental Hazards	Not Regulated
Marine Pollutant	No
Special Precautions	None
Transport in Bulk (according to Annex II of MARPOL 73/78 and the IBC Code)	- Not Applicable

Section 15: Regulatory information

None

Section 16: Other information, including date of preparation or last revision

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